



# State of Wisconsin IT Security Policy Handbook

DRAFT

Effective Date: Month xx, 2018

## TABLE OF CONTENTS

---

STATUTORY AUTHORITY .....	4
OVERVIEW .....	5
SCOPE .....	5
ROLES AND RESPONSIBILITIES .....	5
COMPLIANCE.....	6
COORDINATION AMONG AGENCIES.....	6
ENFORCEMENT/SANCTIONS .....	7
IT SECURITY GOVERNANCE-TERMINOLOGY & DEFINITIONS .....	7
Guiding Principles .....	7
Policies .....	7
Standards .....	8
Procedures .....	8
ALIGNMENT WITH IT GOVERNANCE .....	8
COMMUNICATION .....	9
SUSTAIN .....	9
IT SECURITY POLICIES.....	10
AC-01 Access Control Policy.....	10
AT-01 Security Awareness and Training Policy .....	11
AU-01 Audit and Accountability Policy .....	12
CA-01 Security Assessment and Authorization Policy .....	13
CM-01 Configuration Management Policy.....	14
CP-01 Contingency Planning Policy.....	15
IA-01 Identification and Authentication .....	16
IR-01 Incident Response Policy .....	17
MA-01 System Maintenance Policy .....	18
MP-01 Media Protection Policy .....	19
PE-01 Physical and Environmental Protection Policy .....	20
PL-01 Security Planning Policy .....	21

PS-01 Personnel Security Policy .....	22
RA-01 Risk Assessment Policy .....	23
SA-01 System and Services Acquisition Policy .....	24
SC-01 System and Communication Protection Policy.....	25
SI-01 System and Information Integrity Policy .....	26
PM-01 Program Management Policy .....	27
Appendix A – ACRONYMS .....	29
Appendix B - DOA/DET IT Security Policy Governance Process.....	<b>Error! Bookmark not defined.</b>
Appendix C – Glossary/Definitions .....	30
Appendix D – Review, Revision, Approval Log.....	35

## STATUTORY AUTHORITY

---

Wisconsin State Statutes Chapter 16 SUBCHAPTER VII INFORMATION TECHNOLOGY describes the responsibilities and duties of the Department of Administration (DOA) related to setting policies and procedures for the administration of information technology (IT) services.

16.971 Responsibilities of department. (2) The department shall:

(a) Ensure that an adequate level of information technology services is made available to all executive branch agencies by providing systems analysis and application programming services to augment agency resources, as requested. The department shall also ensure that executive branch agencies, other than the board of regents of the University of Wisconsin System, make effective and efficient use of the information technology resources of the state. The department shall, in cooperation with the executive branch agencies, establish policies, procedures, and planning processes, for the administration of information technology services, which executive branch agencies shall follow. The policies, procedures and processes shall address the needs of agencies, other than the board of regents of the University of Wisconsin System, to carry out their functions. The department shall monitor adherence to these policies, procedures, and processes.

(k) Ensure that all state data processing facilities develop proper privacy and security procedures and safeguards.

16.973 Duties of the department. The department shall:

(3) Facilitate the implementation of statewide initiatives, including development and maintenance of policies and programs to protect the privacy of individuals who are the subjects of information contained in the databases of agencies, and of technical standards and sharing of applications among executive branch agencies and any participating local governmental units or entities in the private sector.

(4) Ensure responsiveness to the needs of executive branch agencies for delivery of high-quality information technology processing services on an efficient and economical basis, while not unduly affecting the privacy of individuals who are the subjects of the information being processed by the department.

(5) Utilize all feasible technical means to ensure the security of all information submitted to the department for processing by executive branch agencies, local governmental units, and entities in the private sector.

## OVERVIEW

---

The State of Wisconsin IT Security Policy Handbook has been developed in order to provide a baseline of security policies and controls throughout the enterprise. This handbook contains an explanation of terms for guiding principles, policies, standards, procedures, and key components of the enterprise security approach and governance process. Included in the handbook are all current enterprise security policies with links to associated standards, cross-referenced to the NIST 800-53, Version 4 guidelines that define recommended baseline security controls for governmental organizations. As provider of the State of Wisconsin consolidated data center services, which involve a multitude of federal and state regulatory requirements, DOA has adopted the NIST 800-53 Publication, Version 4, as the foundational framework for executive branch IT security policies and standards.

## SCOPE

---

All State of Wisconsin executive branch agencies, excluding the University of Wisconsin System, are expected to adhere to these policies. As needed to address business requirements, agencies can employ more rigorous policies and standards in relation to agency-specific applications and processes.

## ROLES AND RESPONSIBILITIES

---

- Chief Information Officer (CIO)
  - Ensures that DOA drafts, finalizes, and promulgates enterprise security policies.
  - Reviews and approves any DOA-specific IT Security policies.
- Chief Information Security Officer (CISO)
  - Develops and administers the DOA/Division of Enterprise Technology IT Security Program.
  - Formulates any DOA-specific IT security standards.
  - Provides guidance to management in interpreting federal, state, and local security laws and requirements.
- Administrative Officers (AO) and Information Technology Executive Steering Committee (ITESC)
  - Ensure the implementation of IT security policies within their respective executive branch agencies.
  - Provide governance oversight of executive branch security policies.
- Compliance Officer, Division of Enterprise Technology – Bureau of Security
  - Researches and develops necessary IT security policies, standards, and procedures.

- Maintains the IT security policies, standards, and procedures review schedule for DOA/DET.
- Publishes updates to the DOA/DET Portal as necessary.
- Facilitates the processing of any requests for exceptions to executive branch security policies and standards.
- Provides IT security compliance consulting support as it relates to regulatory requirements and security industry best practices.

## COMPLIANCE

---

The executive branch IT security policies contained in this handbook shall take effect upon approval by the Information Technology Executive Steering Committee (ITESC) and subsequent publication. The DOA Bureau of Security shall ensure a review of the handbook at least once every year to ensure relevancy.

If compliance with particular policies or related standards is not feasible or technically possible, or if deviation is justifiable to support a business function, agency representatives shall request an exception through the DOA Bureau of Security Exception Procedure.

## COORDINATION AMONG AGENCIES

---

The State of Wisconsin DET consolidated data center customer base is subject to multiple regulatory requirements designed to ensure the effective implementation of appropriate IT security measures. Listed below are the primary regulatory requirements that DOA/DET and its executive branch agency customers are subject to:

- Centers for Medicare and Medicaid Services (CMS) - Catalog of Minimum Acceptable Risk Security and Privacy Controls for Exchanges (MARS-E)
- Criminal Justice Information Services (CJIS) Security Policy
- Family Educational Rights and Privacy Act (FERPA) Compliance
- Federal Information Security Management Act (FISMA)
- Health Insurance Portability and Accountability Act (HIPAA)
- Internal Revenue Service (IRS) Publication 1075
- Payment Card Industry – Data Security Standard (PCI-DSS)
- Social Security Administration (SSA) Technical System Security Requirements
- Wisconsin State Statutes Chapter 16.971

The DOA/DET consolidated data center shares responsibility with executive branch agency customers for safeguarding assets and information including, but not limited to, Federal Tax Information (FTI),

Protected Health Information (PHI), and Personally Identifiable Information (PII). DOA/DET employs security mechanisms for coordinating the access and protection of audit information among external organizations when audit information is transmitted across executive branch agency boundaries.

DOA/DET may designate selected controls as agency-defined. Implementation of some controls may need to be done in partnership between DOA/DET and the regulated state agency; however, the executive branch state agencies maintains primary responsibility for ensuring it is completed.

*Note:* All regulatory publications map to the security controls in NIST Special Publication 800-53, Revision 4, which is used as the primary reference point by the DOA/DET Bureau of Security for IT security policies, standards, procedures.

## **ENFORCEMENT/SANCTIONS**

---

Deviations from the executive branch IT security policies at the agency level will be tracked by DET and findings conveyed to the agency, which will be expected to work with DET to develop and implement a corrective action plan. Violations of these policies by individual employees are possibly punishable by discipline, up to and including discharge. Violations of these policies which also constitute a criminal act shall be referred to law enforcement. All determinations regarding appropriate sanctions for violations of executive branch IT security policies will be made in consultation with the DOA Division of Personnel Management, in accordance with the State of Wisconsin's Disciplinary Action Policy.

## **IT SECURITY GOVERNANCE – TERMINOLOGY AND DEFINITIONS**

---

The following definitions apply to this document:

- **Guiding Principles**
  - Over-arching statements that convey the philosophy, direction, or belief of an organization.
  - Guiding principles are not policies, but serve as guideposts in the formulation of security policies and procedures.
  - Guiding principles serve to “guide” people in making the right decisions for an organization.
- **Policies**
  - A formal, brief, and high-level statement or plan that embraces an organization's general beliefs, goals, rules, and objectives for a specific subject area.
  - Specific policies are created to mitigate risks within multiple categories that include, but are not limited to, information security, data privacy, and regulatory compliance.

- As noted above, multiple regulatory requirements mandate that the State of Wisconsin. “Develop, document, and disseminate...” security policies in specific areas to executive branch agencies.
- **Standards**
  - A mandatory action or rule designed to support and conform to a policy.
  - A standard should make a policy more meaningful and effective. Standards are usually written to describe the requirements for various technology configurations (e.g., mobile devices, type in use for encryption, firewall settings).
  - A standard must include one or more accepted specifications for hardware, software, or behavior.
- **Procedures**
  - Procedures are the specific instructions for aligning with standards and policies, consisting of a series of steps taken to accomplish an end-goal policy statement.
  - Procedures are important to achieving policy goals. The policies define what is to be protected and the procedures outline how to implement the standards or how to fulfill the requirements and expectations of the policies.
  - Regulatory requirements are to “develop, document, and disseminate ... procedures to facilitate the implementation...” of associated policies.

## **ALIGNMENT WITH IT GOVERNANCE**

---

The following will ensure consistent oversight for all IT security guiding principles, policies, standards, and procedures.

- Executive branch IT security policies that constitute a baseline for state agencies will be presented to the ITESC for review and approval.
- Executive branch IT security guiding principles, policies, and standards will be published by DOA.
- Agencies can employ more rigorous policies and standards in relation to agency-specific applications and processes, as needed to address business requirements.
- All agencies will maintain and publish procedures that accomplish the end-goal executive branch IT policies and standards (or, in the case of instances where the agency employs more rigorous policies and standards in relation to agency-specific applications and processes, the agency will maintain and publish procedures that accomplish the agency’s more rigorous policies and standards).



## COMMUNICATION

---

- All approved security guiding principles, policies, standards, and procedures will be published to the DOA/DET Customer Portal.
- Policies, standards, and procedures will be communicated to all appropriate personnel via email upon policy approval.
- Executive branch IT security policies and standards will be incorporated into the State of Wisconsin IT Security Awareness Training Program.

## SECURITY POLICY AND STANDARDS REVIEW AND MAINTENANCE

---

The following processes will be implemented to ensure compliance to regulatory requirements.

- Executive branch agency IT security policies and standards will be reviewed a minimum of annually.
- DOA/DET Bureau of Security personnel will:
  - Document policy review and approval procedures;
  - Maintain the policy review schedule;
  - Publish executive branch agency IT security guiding principles, policies, and standards to the DOA/DET Customer Portal;
  - Maintain a single repository for documentation; and
  - Coordinate the review and tracking of exception requests to executive branch agency IT security policies and standards.

# IT SECURITY POLICIES

## AC-01 Access Control Policy

---

### Purpose

This policy establishes the Access Control Policy, for managing risks associated with user account management, access enforcement and monitoring, insufficient separation of duties, lack of adherence to the principle of least privilege and remote access security. The related access control standards will facilitate the implementation of security best practices for logical security, account management, and remote access.

### Policy

System Access may only be granted upon receipt of an approved agency "Access Request Form" from an authorized submitter. The granting of access privileges must follow the principle of least privilege, be appropriate to job role, and commensurate with appropriate account management assignments (user, privilege, and system accounts).

### Standards and associated NIST security control recommendations

- Access Control Standard
  - AC-2 Account Management
  - AC-3 Access Enforcement
  - AC-4 Information Flow Enforcement
  - AC-6 Least Privilege
  - AC-7 Unsuccessful Logon Attempts
  - AC-8 System Use Notification
  - AC-11 Session Lock
  - AC-12 Session Termination
  - AC-20 Use of External Information Systems
  - AC-21 Information Sharing
- Data Classification Standard
  - AC-22 Publicly Accessible Content
- Identification and Authentication Standard
  - AC-14 Permitted Actions without Identification or Authentication
- Remote Access Standard
  - AC-17 Remote Access
- Wireless Access Standard
  - AC-18 Wireless Access
- Mobile Device Standard
  - AC-19 Access Control for Mobile Devices

### Compliance References

- HIPAA
- IRS 1075
- NIST 800-53 Revision 4

## AT-01 Security Awareness and Training Policy

---

### Purpose

This policy establishes the Security Awareness and Training Policy, for managing risks from a lack of IT security awareness, communication, and training through the establishment of an effective security awareness and education program. The security awareness and education program will train agency personnel, contractors, and interns on security best practices and concepts.

### Policy

Executive branch agencies will develop and/or procure and make available online security awareness training with a focus on security best practices and role-based security and responsibilities for all agency personnel, contractors and interns to ensure an understanding of agency security policies and current IT security best practices. It is a requirement that all executive branch agency employees, contractors, and interns receive security awareness and disclosure training upon employment and complete refresher security awareness training annually.

### Standards and associated NIST security control recommendations

- [Security Awareness and Training Standard](#)
  - AT-2 Security Awareness Training
  - AT-3 Role-Based Security Training
  - AT-4 Security Training Records

### Compliance References

- IRS 1075
- IRS 6103
- NIST 800-53

## AU-01 Audit and Accountability Policy

---

### Purpose

This policy establishes the Audit and Accountability Policy, for managing risks from inadequate event logging and transaction monitoring. The related audit and accountability standard and procedure ensure the implementation of security best practices regarding event logging and transaction monitoring and the retention of audit evidence.

### Policy

The audit and log functions of executive branch agencies must enable the detection and capture of event data of unauthorized access to sensitive and classified information, and information requiring regulatory protection. Audited events must be reviewed regularly and where possible when unauthorized access events have been identified.

Auditing must be enabled to the greatest extent necessary to capture access, modification, deletion, and movement of sensitive and classified information by unique user name/ID. Event storage retention must remain in compliance with regulatory requirements and be supported with an appropriate amount of disk storage for the required retention period. Time-stamps capabilities shall be synchronized for monitoring auditable devices and events.

### Standards and associated NIST security control recommendations

- Audit and Accountability Standard
  - AU-2 Audit Events
  - AU-3 Content of Audit Records
  - AU-4 Audit Storage Capacity
  - AU-5 Response to Audit Processing Failures
  - AU-6 Audit Review, Analysis, and Reporting
  - AU-7 Audit Reduction and Report Generation
  - AU-8 Time Stamps
  - AU-9 Protection of Audit Information
  - AU-11 Audit Record Retention
  - AU-12 Audit Generation
  - AU-16 Cross-Agency Auditing

### Compliance References

- IRS 1075
- NIST 800-53

## CA-01 Security Assessment and Authorization Policy

---

### Purpose

This policy establishes the Security Assessment and Authorization Policy, for managing risks from inadequate security assessments, authorization, and continuous monitoring of executive branch agency information assets through the establishment of an effective security assessment program and procedures to facilitate this policy. This policy and the associated procedures help to implement security best practices regarding security assessments, authorization, and continuous monitoring.

### Policy

Develop and conduct periodic security assessment(s), which may include vulnerability and penetration tests, which evaluate and document security measures in place on all critical agency IT systems and system environments. The agency will define the appropriate timeframes for conducting these assessments. Security assessment reports must be formally documented and reported to agency management, with a description of the assessment controls being evaluated, associated findings/observations, definition of the assessment environmental landscape, remediation activities, owner, and identification of the assessment team.

### Standards and associated NIST security control recommendations

- Security Assessment and Authorization Standard
  - CA-2 Security Assessments
  - CA-3 System Interconnections
  - CA-6 Security Authorization
  - CA-7 Continuous Monitoring

### Compliance References

- IRS 1075
- NIST 800-53
- PCI DSS

## CM-01 Configuration Management Policy

---

### Purpose

This policy establishes the Configuration Management Policy, for managing risks from system changes impacting baseline configuration settings, system configuration, and security based on the principle of “least functionality.” The configuration management procedures will help document, authorize, manage and control system changes impacting information system components within the control of the executive branch agency.

### Policy

To ensure a secured and consistent implementation of protection mechanisms, baseline configurations and supporting procedures for all agency applications must be developed, documented, and maintained. These baselines derive from the United States Government Configuration Baseline (USGCB) and regulatory requirements shall be reviewed and updated based on changes to the agency systems environments.

### Standards and associated NIST security control recommendations

- Configuration Management Standard
  - CM-2 Baseline Configuration
  - CM-3 Configuration Change Control
  - CM-6 Configuration Settings
  - CM-7 Least Functionality
  - CM-8 Information System Component Inventory
- Appropriate Use of Software Standard
  - CM-10 Software Usage Restrictions

### Compliance References

- IRS 1075
- NIST 800-53
- PCI DSS

## CP-01 Contingency Planning Policy

---

### Purpose

To ensure continuation of operations, this policy establishes the Contingency Planning Policy, for managing risks from information asset disruptions, failures, and disasters through the establishment of effective contingency planning procedures. The contingency planning procedures ensure the implementation of security best practices regarding business continuity and disaster recovery plans.

### Policy

All essential executive branch agency systems will be identified and documented within a formal contingency plan, along with procedures that define recovery objectives, restoration priorities, success metrics that include recovery time and recovery point objectives, roles and responsibilities, and contact lists. The contingency plan must be reviewed on an annual basis.

### Standards and associated NIST security control recommendations

- Contingency Planning Standard
  - CP-2 Contingency Plan
  - CP-3 Contingency Training
  - CP-4 Contingency Plan Testing
  - CP-6 Alternate Storage Site

### Compliance References

- HIPAA
- IRS 1075
- NIST 800-53

## IA-01 Identification and Authentication

---

### Purpose

This policy establishes the Identification and Authentication Policy, for managing risks from user access (organizational, non-organizational) and authentication into executive branch agency information assets through the establishment of an effective identification and authentication program.

### Policy

Individuals attempting access to state agency-managed networks (internal or external) or enterprise systems must be uniquely identified and authenticated before the establishment of a connection to the state-managed networks.

### Standards and associated NIST security control recommendations

- Access Control Standard
  - AC-2 Identification and Authentication (Organizational Users)
- Identification and Authentication Standard
  - AC-14 Permitted Actions without Identification or Authentication
  - IA-2 Identification and Authentication (Organizational Users)
  - IA-3 Device Identification and Authentication
  - IA-4 Identifier Management
  - IA-5 Authenticator Management
  - IA-6 Authenticator Feedback
  - IA-7 Cryptographic Module Authentication
  - IA-8 Identification and Authentication (Non-Organizational Users)

### Compliance References

- IRS 1075
- NIST 800-53



## IR-01 Incident Response Policy

---

### Purpose

This policy is to establish guidelines for the identification, response, reporting, assessment, analysis, and follow-up to all suspected information security incidents. The agency's related information security response procedures help to ensure the security, confidentiality, integrity and availability of electronic information and the automated systems that contain it and the networks over which it travels.

### Policy

This policy requires the definition of a consistent operational approach for responding to identified or reported IT security incidents. An executive branch agency shall develop formal Incident Response Procedures that include the areas of IT security incident event identification, notification, containment, eradication, and recovery.

Executive branch agencies shall:

- Train personnel, including contractors, in their incident response roles.
- Test the incident response capability at least annually.
- Require personnel to report suspected security incidents to their agency help desk upon discovery of the incident.

### Standards and associated NIST security control recommendations

- Incident Response Standard
  - IR-2 Incident Response Training
  - IR-3 Incident Response Testing
  - IR-4 Incident Handling
  - IR-5 Incident Monitoring
  - IR-6 Incident Reporting

### Compliance References

- CJIS
- HIPAA
- IRS 1075
- NIST 800-53
- PCI DSS

## MA-01 System Maintenance Policy

---

### Purpose

This policy establishes the System Maintenance Policy, for managing risks associated with information asset maintenance and repairs through the establishment of effective System Maintenance Procedures. The related system maintenance standards and procedures will ensure the implementation of security best practices regarding system maintenance and repairs.

### Policy

Executive branch agencies will develop formal and documented procedures to ensure consistent practices regarding the scheduling, performing, documenting, reviewing, and recording of maintenance and repairs for all agency-controlled IT system components in accordance with manufacturer or vendor specifications, or in accordance with any relevant enterprise requirements for information system maintenance.

Personnel performing maintenance on the information system components must have appropriate identification and/or been previously authorized by the executive branch agency.

### Standards and associated NIST security control recommendations

- Maintenance Standard
  - MA-2 Controlled Maintenance
  - MA-3 Maintenance Tools
  - MA-4 Non-Local Maintenance
  - MA-5 Maintenance Personnel

### Compliance References

- IRS 1075
- NIST 800-53

## **MP-01 Media Protection Policy**

---

### **Purpose**

This policy establishes the Media Protection Policy, for managing risks from media access, media storage, media transport, and media protection through the establishment of effective Media Protection Procedures. The media protection procedures will ensure the implementation of security best practices and control activities regarding enterprise media usage, storage, and disposal (media being digital or non-digital media).

### **Policy**

Access controls to all sensitive and confidential information must restrict access to both digital and non-digital media to only authorized personnel using physical and logical access control mechanisms. Protection mechanisms will be implemented to protect sensitive or regulated information whether at rest or in transit. Media protection is required during the life cycle of the storage medium until such time the media has been physically destroyed or sanitized using only approved destruction equipment, techniques, and procedures.

### **Standards and associated NIST security control recommendations**

- Media Protection
  - MP-2 Media Access
  - MP-4 Media Storage
  - MP-5 Media Transport
  - MP-6 Media Sanitization

### **Compliance References**

- CJIS
- IRS 1075
- NIST 800-53
- PCI DSS

## PE-01 Physical and Environmental Protection Policy

---

### Purpose

This policy establishes the Physical and Environmental Protection Policy, for mitigating the risks from physical security and environmental threats through the establishment of an effective physical security and environmental control procedures. The physical security and environmental controls program helps protect its IT assets from physical and environmental threats whether internal or external.

### Policy

Physical access to DOA/DET infrastructure facilities where sensitive/confidential informational assets or infrastructure reside will be strictly limited to personnel requiring access to buildings or sensitive areas within the DOA/DET infrastructure facilities. This policy applies to both DOA and executive branch agency personnel. For visitors, documentation must be retained to capture the individual identification by showing formal identification documentation – e.g., driver's licenses and state or government IDs containing photo. All personnel granted access to restricted buildings must display appropriate identification badges above the waist. Identification badges shall be displayed above the waist always while remaining inside of the building.

As provider of the State of Wisconsin consolidated data center, DET must protect environmental control equipment (HVAC), monitoring systems and required power cabling, control boxes, and piping from inappropriate access, tampering, damage and destruction. Further protection of the infrastructure components must include emergency shutoff, power, lighting, fire protection (detection and suppression), temperature and humidity controls, and water damage.

Executive branch state agencies must also utilize appropriate physical and environmental protection mechanisms at all alternate work sites where sensitive/confidential information resides.

### Standards and associated NIST security control recommendations

- Physical and Environment Protection Standard
  - PE-2 Physical Access Authorizations
  - PE-3 Physical Access Control
  - PE-6 Monitoring Physical Access
  - PE-8 Visitor Access Records

### Compliance References

- HIPAA
- IRS 1075
- NIST 800-53
- PCI DSS

## PL-01 Security Planning Policy

---

### Purpose

This policy establishes the Security Planning Policy, for managing risks from inadequate security planning through the establishment of an effective security planning program. The related security planning procedures ensure the implementation of security best practices regarding the enterprise security planning, preparation, and strategy development.

### Policy

Executive branch agencies shall develop and maintain an IT security plan that assures the protection of State of Wisconsin information assets controlled by the agency. The plan should include security measures taken to protect all information assets located at alternate agency work sites and the agency's responsibilities in assuring the security of information in transit to and from the State of Wisconsin consolidated data center. When agencies are planning to deploy new applications or major upgrades to existing applications, they should consult with the DOA/DET Bureau of Security to identify any necessary modifications to the agency's IT security plan.

### Standards and associated NIST security control recommendations

- Planning
  - PL-4 Rules of Behavior

### Compliance References

- HIPAA
- IRS 1075
- NIST 800-53
- PCI - DSS

## PS-01 Personnel Security Policy

---

### Purpose

This policy establishes the Personnel Security Policy, for managing risks from personnel screening, termination, management, and third-party (contractors, vendors, interns) access, through the establishment of an effective security planning procedures. The personnel security procedures ensure the implementation of security best practices regarding personnel screening, termination, transfer, and management.

### Policy

Executive branch agencies are required to document and utilize appropriate personnel screening and/or background checks prior to initiating employment of new hires. The personnel. The personnel security requirements for each type of role in the agency must be formally documented and monitored for individual compliance. Third-party vendors or contractors working for the agency are also subject to established agency security policies. Access agreements between the executive branch agency and vendor/contractors must be reviewed and updated on a periodic basis defined and documented by the agency.

### Standards and associated NIST security control recommendations

- Personnel Security Standard
  - PS-2 Position Risk Designation
  - PS-3 Personnel Screening
  - PS-4 Termination
  - PS-6 Access Agreements

### Compliance References

- IRS 1075
- NIST 800-53
- CJIS

## RA-01 Risk Assessment Policy

---

### Purpose

This policy establishes the Risk Assessment Policy, for managing risk from vulnerabilities, determining areas of vulnerabilities, initiating appropriate remediation activities by the agency, and establishing effective risk assessment methodology and procedures. The related Risk Assessment Procedures will ensure the implementation of security best practices regarding the identification of known vulnerabilities to State of Wisconsin information assets.

### Policy

Timely risk assessments of the executive branch agency's information assets and systems are required to protect against potential threats and vulnerabilities in the areas of confidentiality, integrity, and availability of sensitive and confidential information.

### Standards and associated NIST security control recommendations

- Risk Assessment Standard
  - RA-3 Risk Assessment
  - RA-5 Vulnerability Scanning

### Compliance References

- IRS 1075
- NIST 800-53

## SA-01 System and Services Acquisition Policy

---

### Purpose

This policy establishes the System and Services Acquisition Policy, for managing risks from third party products and services providers, through the establishment of effective third-party risk management procedures. The related third-party risk assessment procedure helps ensure the implementation of security best practices regarding the acquisition of systems and services from third-party providers.

### Policy

The acquisition of systems and services from third-party providers are subject to a formal security assessment review by the executive branch agency to address compliance to established security policies, procedures, and standards prior to the actual purchase or contracting of services. Regulatory compliance must be maintained post implementation and throughout the life cycle of the product or service contracts being acquired.

### Standards and associated NIST security control recommendations

- System and Services Acquisition Standard
  - SA-3 System Development Life Cycle
  - SA-8 Security Engineering Principles
  - SA-9 External Information System Services

### Compliance References

- IRS 1075
- NIST 800-53



## SC-01 System and Communication Protection Policy

---

### Purpose

This policy establishes the System and Communications Protection Policy, for managing risks from vulnerable system configurations, denial of service, data communication, and transfer. The associated system and communications protection procedures help implement security best practices regarding system configuration, data communication, and transfer as they relate to the availability, confidentiality, or integrity of information.

### Policy

Sensitive and confidential agency information, whether at rest or in-transit, must be protected from accidental or intentional threats that could corrupt, modify, delete, or disclose that information. Controls must consider threats from denial of service, attacks against network boundaries, transmission mechanisms, network disconnects, collaborative computing devices, other critical system components, multi-function devices, and printers.

### Standards and associated NIST security control recommendations

- Remote Access Standard
  - SC-7 Boundary Protection
- System and Communications Protection Standard
  - SC-8 Transmission Confidentiality and Integrity
  - SC-10 Network Disconnect
  - SC-12 Cryptographic Key Establishment and Management
  - SC-13 Cryptographic Protection
  - SC-15 Collaborative Computing Devices
  - SC-17 Public Key Infrastructure Certificates
  - SC-23 Session Authenticity
  - SC-28 Protection of Information at Rest

### Compliance References

- HIPAA
- IRS 1075
- NIST 800-53

## SI-01 System and Information Integrity Policy

---

### Purpose

This policy establishes the System and Information Integrity Policy, for managing risks from system flaws/vulnerabilities, malicious code, unauthorized code changes, and inadequate error handling. The related system and information integrity procedures help the executive branch agency implement security best practices regarding system configuration, security, and system and information error handling processes and procedures.

### Policy

Executive branch agency business systems must:

- Identify, report, and correct information system flaws.
- Test software updates related to flaw remediation for effectiveness and potential side effects on organizational information assets before installation.
- Incorporate flaw remediation and error handling into the organizational configuration management process.
- Employ, configure and update malicious code protection mechanisms at information asset entry and exit points and at workstations or mobile computing devices on the network to detect and eradicate malicious code.

Sensitive and regulated information must maintain its integrity and be protected against compromise by potential threats and vulnerabilities. All critical security event mechanisms must have event detection monitoring, capturing, and reporting of violation events. Security violation event records are required to be logged and retained based on current regulatory requirements applicable to the agency applications (currently seven years for IRS, 10 years for CMS).

### Standards and associated NIST security control recommendations

- Patch Management Standard
  - SI-2 Flaw Remediation
- System and Information Integrity Standard
  - SI-3 Malicious Code Protection
  - SI-4 Information System Monitoring
  - SI-8 Spam Protection

### Compliance References

- IRS 1075
- NIST 800-53

## PM-01 Program Management Policy

---

### Purpose

The Information Security Program was developed in response to the requirements outlined by the following:

- Wisconsin Statutes Chapter 16 assigns responsibility of proper privacy and security procedures/safeguards; information security planning; threat-mitigation; and resource development to the Department of Administration.
- NIST SP 800-53 Revision 4, which defines baseline security controls for governmental organizations, requires identification and documentation of the senior-level official(s) responsible for the agency-wide information security program.

### Policy

Management of the state's Information Security Program is provided by:

- The ITESC reviews and approves executive branch state agency IT security policies and the corresponding standards. These will provide a baseline of security policies and controls throughout executive branch agencies. DOA/DET will publish and maintain these policies and standards.
- As needed to address business requirements, agencies can employ more rigorous policies and standards in relation to agency-specific applications and processes.
- DOA/DET will ensure that the executive branch state agency IT security policies and standards are reviewed at least annually. Any proposed changes, based on DOA/DET review and agency input, will be brought back to the ITESC.
- The Chief Information Officer (CIO) is the designated official assigned with the responsibility to create an agency-wide information security program (PM-2).
- The Chief Information Security Officer (CISO) is the designated official assigned with:
  - executing the agency-wide information security program;
  - developing the mission and program priorities;
  - documenting policies and standards to address IT and information security needs; and
  - securing resources (including assistance from internal and external personnel and IT assets) to coordinate, develop, implement, and maintain the information security program (PM-2, PM-11, PM-13).

### Policies and associated NIST security control recommendations

- |        |                                       |        |                                     |
|--------|---------------------------------------|--------|-------------------------------------|
| ○ AC-1 | Access Control                        | ○ MP-1 | Media Protection                    |
| ○ AT-1 | Awareness and Training                | ○ PL-1 | Planning                            |
| ○ AU-1 | Audit and Accountability              | ○ PS-1 | Personnel Security                  |
| ○ CA-1 | Security Assessment and Authorization | ○ RA-1 | Risk Assessment                     |
| ○ CM-1 | Configuration Management              | ○ SA-1 | System and Services Acquisition     |
| ○ CP-1 | Contingency Planning                  | ○ SC-1 | System and Communication Protection |
|        |                                       | ○ SI-1 | System and Information Integrity    |
|        |                                       | ○ PM-1 | Program Management                  |

- IA-1 Identification and Authentication
- IR-1 Incident Response
- MA-1 Maintenance

### **Compliance References**

- IRS 1075
- NIST 800-53

DRAFT

## APPENDICES

---

### Appendix A – ACRONYMS

*Common IT security abbreviations adopted from NIST Special Publication 800-37, Revision 4 and the State of Wisconsin*

• APT	Advanced Persistent Threat
• CIO	Chief Information Officer
• CISO	Chief Information Security Officer
• CJIS	Criminal Justice Information Services
• CPO	Chief Privacy Officer
• DOA/DET	Department of Administration – Division of Enterprise Technology
• DNS	Domain Name System
• DOA	Department of Administration
• DoD	Department of Defense
• FAR	Federal Acquisition Regulation
• FEA	Federal Enterprise Architecture
• FERPA	Family Educational Rights and Privacy Act
• FICAM	Federal Identity, Credential, and Access Management
• FIPS	Federal Information Processing Standards
• FISMA	Federal Information Security Management Act
• HIPAA	Health Insurance Portability and Accountability Act
• HSPD	Homeland Security Presidential Directive
• IPsec	Internet Protocol Security
• IRS	Internal Revenue Service
• LACS	Logical Access Control System
• NIST	National Institute of Standards and Technology
• NSA	National Security Agency
• OMB	Office of Management and Budget
• OPSEC	Operations Security
• PCI-DSS	Payment Card Industry Data Security Standard
• PII	Personally Identifiable Information
• PIV	Personal Identity Verification
• PKI	Public Key Infrastructure
• RMF	Risk Management Framework
• SCADA	Supervisory Control and Data Acquisition
• SP	Special Publication
• TCP/IP	Transmission Control Protocol/Internet Protocol
• USB	Universal Serial Bus
• USGCB	United States Government Configuration Baseline
• VoIP	Voice over Internet Protocol
• VPN	Virtual Private Network

## Appendix B – Glossary/Definitions

---

*Common IT security terms adopted from NIST Special Publication 800-37, Revision 4 and the State of Wisconsin*

Term	Definition
Access Control	Security control designed to permit authorized access to an IT system or application.
Accessible	Information arranged, identified, indexed, or maintained in a manner that permits the custodian of the public record to locate and retrieve the information in a readable format within a reasonable time.
Authentication	Verification of the identity of a user, user device, or other entity, or the integrity of data stored, transmitted, or otherwise exposed to unauthorized modification in an IT.
Authorization	Access privileges granted to a user, program, or process or the act of granting those privileges.
Availability	The extent to which information is operational, accessible, functional, and usable upon demand by an authorized entity (e.g., a system or user).
Confidentiality	The property that information is not made available or disclosed to unauthorized individuals, entities, or processes.
Configuration Management	The process of keeping track of changes to the system, if needed, approving them.

Term	Definition
Contingency Plan	A plan for emergency response, backup operations, and post-disaster recovery maintained by an activity as a part of its security program that will ensure the availability of critical resources and the successful continuity of operations in an emergency.
Control	An action taken to enhance the likelihood that established goals or objectives will be achieved (in the context of this handbook, generally an action taken to reduce risk).
Data	A subset of information in an electronic format that allows it to be retrieved or transmitted.
Executive Branch Agencies	Administrative departments, executive agencies, boards, and councils of the State of Wisconsin executive branch of government, as described in the State of Wisconsin Blue Book. For the purpose of these enterprise security policies, the UW System is not included, though the UW System is in the executive branch.
Identification	The process that enables a user described to an IT system or service.
Digital Media	A form of electronic media where data are stored in digital (as opposed to analog) form.
Information Security	The protection of information and information systems from unauthorized access, use, disclosure, disruption, modification, or destruction to provide confidentiality, integrity, and availability.
Incident	An occurrence that actually or potentially jeopardizes the confidentiality, integrity, or availability of an information system or the information the

Term	Definition
	system processes, stores, or transmits or that constitutes a violation or imminent threat of violation of security policies, security procedures, or acceptable use policies.
Incident Response	The manual and automated procedures used to respond to reported network intrusions (real or suspected); network failures and errors; and other undesirable events.
Information	Any communication or representation of knowledge such as facts, data, or opinions in any medium or form, including textual, numerical, graphic, cartographic, narrative, or audiovisual.
Integrity	Integrity is the protection of information from tampering, forgery, or accidental changes. It ensures that messages are accurately received as they were sent, and computer errors or non-authorized individuals do not alter information.
Intrusion detection	Pertaining to techniques, which attempt to detect intrusion into a computer or network by observation of actions, security logs, or audit data. detection of break-ins or attempts either manually or via software expert systems that operate on logs or other information available on the network.
Least Functionality	The organization configures information systems to provide only essential capabilities, and disables unused or unnecessary components of information systems to prevent unauthorized connection of devices, unauthorized transfer of information, and unauthorized tunneling.
Least Privilege	Granting users, programs, or processes only the access they specifically need to perform their business task and no more.



Term	Definition
Multifactor Authentication	Using more than one of the following factors to authenticate to a system: Something you know (e.g., user-ID, password, personal identification number (PIN), or passcode); something you have (e.g., a one-time password authentication token, 'smart card'); something you are (e.g., fingerprint, retina scan).
Privileged Account	A privileged account is an account which provides increased access and requires additional authorization. Examples include a network, system, or security administrator account.
Remote Access	The connection of a remote computing device via communication lines such as ordinary phone lines or wide area networks to access network applications and information.
Risk	The probability that a particular threat will exploit a particular vulnerability of the system.
Risk Assessment	The process of identifying threats to information or information systems, determining the likelihood of occurrence of the threat, and identifying system vulnerabilities that could be exploited by the threat.
Security (IT)	Measures and controls that protect IT systems/information against denial of access and unauthorized (accidental or intentional) disclosure, modification, or destruction of ITs and data. IT security includes consideration of all hardware and/or software functions.
System	An interconnected set of information resources under the same direct management control that shares common functionality. A system normally includes hardware, software, applications, and communications.

Term	Definition
Threat	A potential circumstance, entity, or event capable of exploiting vulnerability and causing harm. Threats can come from natural causes, human actions, or environmental conditions. A threat does not present a risk when there is no vulnerability.
User	Any State Entity, federal government entity, political subdivision, their employees or third-party contractors or business associates, or any other individuals who are authorized by such entities to access a system for a legitimate government purpose.
Vulnerability	A weakness that can be accidentally triggered or intentionally exploited.

## Appendix C – Review, Revision, Approval Log

---

Version	Revision or Review Date	Author-Title	Description of Changes
1.0	X/xx/18	DOA/DET	Draft executive branch state agency IT Security Policy Handbook submitted for approval to the IT Executive Steering Committee